IN THE CLAIMS:

Please cancel claims 1-37 without prejudice. Please add new claims 38-76.

1-37 (canceled)

- 38. (new) A composition comprising: (a) a polymeric bone-cement component in the form of particles, and (b) an anti-resorptive agent in the form of particles, wherein the anti-resorptive agent's particle-size distribution is about the same as the polymeric bone-cement component's particle-size distribution.
- 39. (new) The composition of claim 38, wherein the anti-resorptive agent is a bisphosphonate or a pharmaceutically acceptable salt or ester thereof.
- 40. (new) The composition of claim 38, wherein the anti-resorptive agent is pamidronate or a pharmaceutically acceptable salt or ester thereof.
- 41. (new) The composition of claim 38, wherein the anti-resorptive agent is etidronate or a pharmaceutically acceptable salt or ester thereof.
- 42. (new) The composition of claim 38, wherein the anti-resorptive agent is alendronate or a pharmaceutically acceptable salt or ester thereof.
- 43. (new) The composition of claim 38, wherein the anti-resorptive agent is zoledronate or a pharmaceutically acceptable salt or ester thereof.
- 44. (new) The composition of claim 38, wherein the anti-resorptive agent is gallium fluoride.
- 45. (new) The composition of claim 38, wherein the anti-resorptive agent is a cholesterol-lowering agent.
- 46. (new) The composition of claim 38, wherein the anti-resorptive agent is an estrogen-bisphosphonate conjugate.
- 47. (new) The composition of claim 38, wherein the bone-cement is an acrylic bone-cement or a hydroxyapatite bone-cement.



- 48. (new) The composition of claim 38, wherein the bone-cement is polymethylmethacrylate and the anti-resorptive agent is pamidronate or a pharmaceutically acceptable salt or ester thereof.
- 49. (new) The composition of claim 38, wherein the bone-cement is polymethylmethacrylate and the anti-resorptive agent is zoledronate, zoledronic acid, or a pharmaceutically acceptable salt or ester thereof.
- 50. (new) The composition of claim 38, wherein 65 to about 70 percent of the particles have an average diameter of about 25 microns.
- 51. (new) The composition of claim 38, wherein 30 to about 35 percent of the particles are about 13 to about 17 microns in diameter.
- 52. (new) The composition of claim 38, wherein the anti-resorptive agent is present on the bone-cement's surface.
- 53. (new) The composition of claim 38, wherein the anti-resorptive agent is impregnated in the bone-cement.
- (new) A composition comprising: (a) a bone-cement selected from the group consisting of (1) an organic cement, (2) an inorganic cement, and (3) a composite cement; and (b) an anti-resorptive amount of an anti-resorptive agent wherein the anti-resorptive agent is present in an amount that does not compromise the cement's chemical or mechanical properties.
- 55. (new) The composition of claim 54, wherein the amount of the anti-resorptive agent is about 0.067 grams to about 6.67 grams per 40 grams of bone cement.
- 56. (new) The composition of claim 54, wherein the cement is an organic cement and the anti-resorptive agent is pamidronate in an amount from about 3% to 3.5% by weight of the composition.
- 57. (new) The composition of claim 54, wherein the amount of the anti-resorptive agent is about 0.67 micrograms to about 3.33 milligrams per 40 grams of bone-cement.

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- 58. (new) The composition of claim 54, wherein the amount of the anti-resorptive agent is about 1.34 micrograms to about 0.2 milligrams per 40 grams of bone-cement.
- 59. (new) The composition of claim 54, wherein the anti-resorptive agent is a bisphosphonate or a pharmaceutically acceptable salt or ester thereof.
- 60. (new) The composition of claim 54, wherein the anti-resorptive agent is pamidronate or a pharmaceutically acceptable salt or ester thereof.
- 61. (new) The composition of claim 54, wherein the anti-resorptive agent is etidronate or a pharmaceutically acceptable salt or ester thereof.
- 62. (new) The composition of claim 54, wherein the anti-resorptive agent is alendronate or a pharmaceutically acceptable salt or ester thereof.
- 63. (new) The composition of claim 54, wherein the anti-resorptive agent is zoledronate or a pharmaceutically acceptable salt or ester thereof.
- 64. (new) The composition of claim 54, wherein the anti-resorptive agent is gallium fluoride.
- 65. (new) The composition of claim 54, wherein the anti-resorptive agent is a cholesterol-lowering agent.
- 66. (new) The composition of claim 54, wherein the anti-resorptive agent is an estrogen-bisphosphonate conjugate.
- 67. (new) The composition of claim 54, wherein the bone-cement is an acrylic bone-cement or a hydroxyapatite bone-cement.
- 68. (new) The composition of claim 54, wherein the bone-cement is polymethylmethacrylate and the anti-resorptive agent is pamidronate or a pharmaceutically acceptable salt or ester thereof.

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- 69. (new) The composition of claim 54, wherein the bone-cement is polymethylmethacrylate and the anti-resorptive agent is zoledronate, zoledronic acid, or a pharmaceutically acceptable salt or ester thereof.
- 70. (new) The composition of claim 54, wherein the anti-resorptive agent is present in an amount that is not toxic.
- 71. (new) A composition comprising: (a) a bone-cement selected from the group consisting of (1) an organic cement, (2) an inorganic cement, and (3) a composite cement; and (b) an anti-resorptive agent selected from the group consisting of a salt of a Group IIIA element, a cholesterol lowering agent, a chemotherapeutic agent-bisphosphonate conjugate, and an estrogen-bisphosphonate conjugate.
- (new) A composition comprising: (a) a bone-cement selected from the group 72. consisting of (1) a mixture comprising an acrylate monomer and a copolymer wherein the copolymer comprises (A) an acrylate or methyl methacrylate monomer and (B) an acrylonitrile, butadiene, styrene, vinyl chloride, vinylidene chloride, or vinyl acetate monomer; (2) an inorganic cement; and (3) a composite cement; and (b) an anti-resorptive amount of an anti-resorptive agent selected from the group consisting of a salt of a Group IIIA element; a cholesterol lowering agent; an estrogen-bisphosphonate conjugate; and a bisphosphonate wherein the bisphosphonate is selected from the group consisting of pamidronate; alendronate; risedronate; ibandronate; zoledronate; olpadronate; icandronate; neridronate (6-amino-1-hydroxyexilidene-1,1-bisphosphonate); dichloromethane bisphosphonic acid; 3-amino-1-hydroxypropane-1,1-bisphosphonic acid; 6-amino-1hydroxyhexane-1,1-bisphosphonic acid; 4-amino-1-hydroxybutane-1,1-bisphosphonic acid; 2-(3-pyridyl)-1-hydroxyethane-1,1-bisphosphonic acid; 2-(N-imidazoyl)-1-hydroxyethane-1,1-bisphosphonic acid; 3-(N-pentyI-N-methylamino)-1-hydroxypropane-1,1-bisphosphonic acid; 3-(N-pyrollidino)-1-hydroxypropane-1,1-bisphosphonic acid; Ncycloheptylaminomethanebisphosphonic acid; S-(p-chlorophenyl) thiomethanebisphosphonic acid; 4-amino-1-hydroxybutylidene-1,1-bisphosphonic acid; (7-dihydro-1pyrindine)methane bisphosphonic acid; (7-dihydro-1-pyrindine)hydroxymethane bisphosphonic acid; (6-dihydro-2-pyrindine)hydroxy-methanebisphosphonic acid; 2-(6pyrolopyridine)-1-hydroxyethane-1,1-bisphosphonic acid; and pharmaceutically acceptable salts and esters thereof.

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- consisting of (1) an organic cement, (2) an inorganic cement, and (3) a composite cement; and (b) a bisphosphonate selected from the group consisting of olpadronate; icandronate; neridronate; 6-amino-1-hydroxyhexane-1,1-bisphosphonic acid; 2-(3-pyridyl)-1-hydroxyethane-1,1-bisphosphonic acid; 2-(N-imidazoyl)-1-hydroxyethane-1,1-bisphosphonic acid; 3-(N-pentyl-N-methylamino)-1-hydroxypropane-1,1-bisphosphonic acid; 3-(N-pyrollidino)-1-hydroxypropane-1,1-bisphosphonic acid; 4-amino-1-hydroxybutylidene-1,1-bisphosphonic acid; (7-dihydro-1-pyrindine)methane bisphosphonic acid; (7-dihydro-1-pyrindine)hydroxymethane bisphosphonic acid; (6-dihydro-2-pyrindine)hydroxymethane bisphosphonic acid; 2-(6-pyrolopyridine)-1-hydroxyethane-1,1-bisphosphonic acid; and pharmaceutically acceptable salts and esters thereof.
- 74. (new) A composition comprising: (a) a bone-cement selected from the group consisting of (1) an organic cement, (2) an inorganic cement, and (3) a composite cement; and (b) a bisphosphonate selected from the group consisting of dichloromethane bisphosphonic acid; N-cycloheptylaminomethanebisphosphonic acid; and S-(p-chlorophenyl) thiomethane-bisphosphonic acid; and pharmaceutically acceptable salts and esters thereof.
- 75. (new) A composition comprising: (a) a bone-cement selected from the group consisting of (1) an organic cement, (2) an inorganic cement, and (3) a composite cement; and (b) a bisphosphonate selected from the group consisting of 1-hydroxyethane-1,1-bisphosphonic acid; 3-amino-1-hydroxypropane-1,1-bisphosphonic acid; 4-amino-1-hydroxybutane-1,1-bisphosphonic acid; and pharmaceutically acceptable salts and esters thereof.
- 76. (new) A composition comprising: (a) a bone-cement selected from the group consisting of (1) an organic cement, (2) an inorganic cement, and (3) a composite cement; and (b) a bisphosphonate selected from the group consisting of zoledronate, zoledronic acid, and pharmaceutically acceptable salts and esters thereof.

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